

Appl. No.: 10/698,502  
Amdt. Dated: June 14, 2006  
Reply to Office Action of: March 14, 2006

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Cancel claims 1-23.

24. (original) A calcium fluoride crystal producing graphite crucible for making a calcium fluoride crystal with increased far-ultraviolet transmission, said graphite crucible comprised of a graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than 4 cm<sup>2</sup>/s.

25. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a Hg porosity of at least 16.7%.

26. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a Hg porosity of at least 20%.

27. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than 5 cm<sup>2</sup>/s.

28. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than 6 cm<sup>2</sup>/s.

29. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than 7 cm<sup>2</sup>/s.

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30. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than 8 cm<sup>2</sup>/s.

31. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than 9 cm<sup>2</sup>/s.

32. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than 10 cm<sup>2</sup>/s.

33. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than 11 cm<sup>2</sup>/s.

34. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than 12 cm<sup>2</sup>/s.

35. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than 13 cm<sup>2</sup>/s.

36. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than 14 cm<sup>2</sup>/s.

37. (previously presented) A graphite crucible suitable for growing monocrystals of alkali and alkaline earth metal fluorides, said crucible being comprised of a graphite

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having a permeability greater than 4 cm<sup>2</sup>/s when measured according to DIN Standard 51935

38. (previously presented) The graphite crucible according to claim 37, wherein the graphite has a permeability greater than 10 cm<sup>2</sup>/s when measured according to DIN Standard 51935.

39. (previously presented) The graphite crucible according to claim 37, wherein the graphite has a permeability is greater than 14 cm<sup>2</sup>/s when measured according to DIN Standard 51935.

40. (previously presented) The graphite crucible according to claim 37, wherein the graphite has a Hg porosity of at least 16.7%.